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**ESSION NUMBER:** 

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CUMENT NUMBER:

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Cloning of gene for dihydroxy-acid dehydratase of coryneform bacteria and its use for manufacturing

isoleucine and valine

INVENTOR(S):

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PATENT ASSIGNEE(S):

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SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent.

LANGUAGE:

Japanese

INT. PATENT CLASSIF.:

MAIN:

C12N015-09

ADDITIONAL:

C12N009-88

INDEX:

C12N015-09, C12R001-13; C12N009-88, C12R001-13

CLASSIFICATION:

7-2 (Enzymes)

Section cross-reference(s): 10

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ----\_\_\_\_\_\_ JP 08089249 A2 19960409 JP 1994-234612 19940929 PRIORITY APPLN. INFO.: JP 1994-234612 19940929

ABSTRACT:

The gene encoding dihydroxy-acid dehydratase (E.C. 4.2.1.9) is isolated from Brevibacterium flavum strain MJ-233. Expression plasmid pCRY30-DH encoding the enzyme was prepd. and used for the transformation of coryneform bacteria. Brevibacterium flavum strain MJ-233 transformed with the plasmid produced isoleucine 20 mM into the medium as compared to 10 mM by the wild type.

SUPPL. TERM:

coryneform bacteria dihydroxy acid dehydratase gene; valine

isoleucine manuf Brevibacterium

INDEX TERM:

Brevibacterium flavum

Deoxyribonucleic acid sequences

Protein sequences

(cloning of gene for dihydroxy-acid dehydratase of coryneform bacteria and use for manufg. isoleucine and

valine)

INDEX TERM:

Gene, microbial

ROLE: MSC (Miscellaneous)

(cloning of gene for dihydroxy-acid dehydratase of coryneform bacteria and use for manufg. isoleucine and

valine)

INDEX TERM:

Plasmid and Episome

(pCRY30-DH; expression of gene for dihydroxy-acid

dehydratase of Brevibacterium flavum on)

INDEX TERM:

(coryneform, cloning of gene for dihydroxy-acid

dehydratase of coryneform bacteria and use for manufg.

isoleucine and valine)

INDEX TERM:

177474-84-9

ROLE: BUU (Biological use, unclassified); PRP (Properties);

BIOL (Biological study); USES (Uses)

(amino acid sequence; cloning of gene for dihydroxy-acid dehydratase of coryneform bacteria and use for manufg.

isoleucine and valine)

INDEX TERM:

72-18-4P, Valine, preparation 73-32-5P,

Isoleucine, preparation

ROLE: BPN (Biosynthetic preparation); BIOL (Biological

study); PREP (Preparation)

(cloning of gene for dihydroxy-acid

dehydratase of coryneform bacteria and use for

manufg. isoleucine and valine)

INDEX TERM:

9024-32-2, Dihydroxy-acid dehydratase